STID 664

AC

GETTLER-RYAN INC.

TRANSMITTAL

revised & resubmitted 11/16/01

NOV 0 1 2001

October 12, 2001
G-R #386509

TO: Mr. James Brownell
Delta Environmental Consultants, Inc.
3164 Gold Camp Drive, Suite 200
Rancho Cordova, California 95670

CC: Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, California 94583

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
1	October 3, 2001	Groundwater Monitoring and Sampling Report Third Quarter - Event of August 30, 2001

COMMENTS:

Please provide any comments/changes and propose any groundwater monitoring modifications for the next event prior to ***October 26, 2001***, at which time the final report will be distributed to the following:

cc: Mr. Scott Seery, Alameda County Health Care Services, Dept. of Environmental Health, 1131 Harbor Bay Parkway, Alameda, CA 94502
Mr. Greg Gurss, Gettler-Ryan Inc., 3140 Gold Camp Drive, Suite 170, Rancho Cordova, CA 95670
Mr. Chuck Headlee, RWQCB - San Francisco Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612
Ms. Anna Counelis and Tula Gallanes, 109 Casa Vieja, Orinda, CA 94563

Enclosures

trans/9-4930-tb

GETTLER-RYAN INC.

October 3, 2001
G-R Job #386509

Mr. Thomas Bauhs
Chevron Products Company
P.O. Box 6004
San Ramon, CA 94583

RE: Third Quarter Event of August 30, 2001
Groundwater Monitoring & Sampling Report
Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

Dear Mr. Bauhs:

This report documents the most recent groundwater monitoring and sampling event performed by Gettler-Ryan Inc. (G-R) at the referenced site. All field work was conducted in accordance with G-R Standard Operating Procedure - Groundwater Sampling (attached).

Static groundwater levels were measured and the wells were checked for the presence of separate-phase hydrocarbons. Static water level data, groundwater elevations, and separate-phase hydrocarbon thickness (if any) are presented in the attached Table 1. A Potentiometric Map is included as Figure 1.

Groundwater samples were collected from the monitoring wells and submitted to a state certified laboratory for analyses. The field data sheets for this event are attached. Analytical results are presented in the table(s) listed below. The chain of custody document and laboratory analytical report are also attached.

Please call if you have any questions or comments regarding this report. Thank you.

Sincerely,

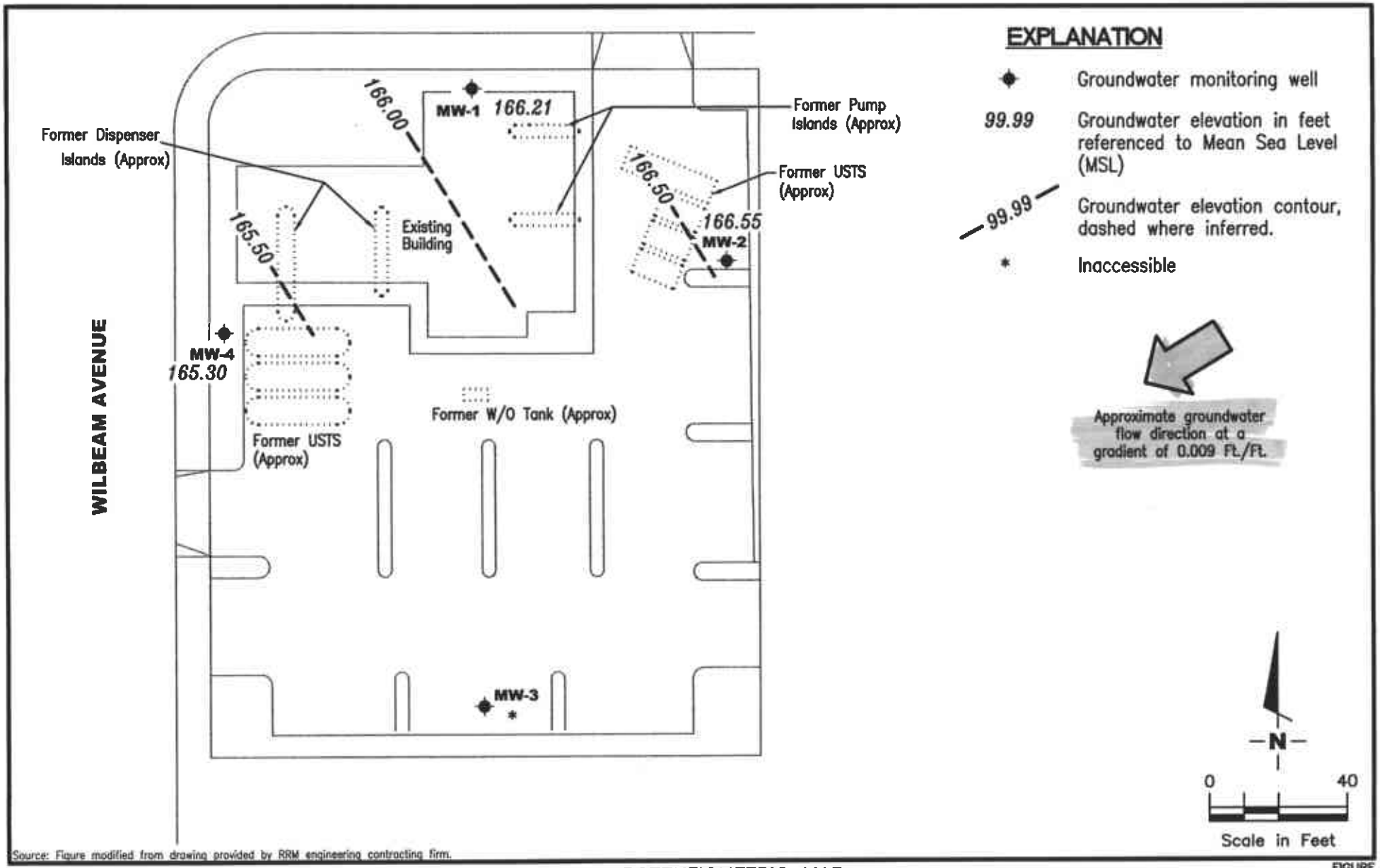
Deanna L. Harding
Project Coordinator

- FOR -

Douglas J. Lee
Senior Geologist, R.G. No. 6882

REGISTERED GEOLOGIST
DOUGLAS J. LEE
No. 6882
STATE OF CALIFORNIA

Figure 1: Potentiometric Map
Table 1: Groundwater Monitoring Data and Analytical Results
Table 2: Groundwater Analytical Results - Oxygenate Compounds
Attachments: Standard Operating Procedure - Groundwater Sampling
Field Data Sheets
Chain of Custody Document and Laboratory Analytical Reports



Source: Figure modified from drawing provided by RRM engineering contracting firm.

GETTLER - RYAN INC.
6747 Sierra Ct., Suite J
Dublin, CA 94568 (925) 551-7555

POTENTIOMETRIC MAP
Former Chevron Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

FIGURE
1

PROJECT NUMBER	REVIEWED BY	DATE	REVISED DATE
386509		August 30, 2001	

FILE NAME: P:\ENVIRO\CHEVRON\9-4930\001-9-4930.DWG | Layout Tab: Pot3

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930

3369 Castro Valley Boulevard

Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-1													
10/29/93	172.90	166.15	6.75	1,000	11	17	32	110	--	--	--	--	--
02/25/94	172.90	166.80	6.10	250	6.0	1.0	5.0	3.0	--	--	--	--	--
04/04/94	172.90	166.14	6.76	--	--	--	--	--	--	--	--	--	--
04/29/94	172.90	166.35	6.55	--	--	--	--	--	--	--	--	--	--
06/13/94	172.90	166.12	6.78	670	35	3.5	43	3.9	--	0.8	16	14	47
06/30/94	172.90	166.06	6.84	--	--	--	--	--	--	--	--	--	--
07/28/94	172.90	166.03	6.87	--	--	--	--	--	--	--	--	--	--
08/31/94	172.90	166.00	6.90	560	43	9.5	25	5.0	--	1.3	19	13	65
11/11/94	172.90	167.00	5.90	460	53	4.0	50	3.4	--	--	--	--	--
02/01/95	172.90	166.88	6.02	240	25	0.6	4.0	<0.5	--	--	--	--	--
05/18/95	172.90	166.82	6.08	580	42	1.0	53	2.6	--	--	--	--	--
08/22/95	172.90	166.52	6.38	840	73	1.2	110	1.6	--	--	--	--	--
11/01/95	172.90	166.40	6.50	350	36	<0.5	30	<0.5	15	--	--	--	--
01/26/96	172.90	166.85	6.05	210	23	<0.5	12	<0.5	4.7	--	--	--	--
05/08/96	172.90	166.50	6.40	310	42	2.3	56	1.1	52	--	--	--	--
10/03/96	173.53	166.61	6.92	240	31	<0.5	1.7	<0.5	18	--	--	--	--
02/04/97	173.53	167.02	6.51	200	9.9	<0.5	3.7	<0.5	16	--	--	--	--
04/30/97	173.53	166.64	6.89	260	11	<0.5	17	<0.5	13	--	--	--	--
07/22/97	173.53	166.49	7.04	170	5.0	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/03/97	173.53	166.55	6.98	230	13	<0.5	7.8	0.68	--[1]	--	--	--	--
02/11/98	173.53	167.52	6.01	110	3.1	0.63	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	173.53	166.72	6.81	170	4.2	1.8	2.1	<0.5	<2.5	--	--	--	--
08/07/98	173.53	167.01	6.52	110	5.2	<0.5	6.7	<0.5	13	--	--	--	--
11/05/98	173.53	166.58	6.95	160	1.8	<0.5	<0.5	0.53	<2.5	--	--	--	--
03/02/99	173.53	166.97	6.56	119	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	173.53	166.89	6.64	153	3.17	<0.5	0.791	<0.5	<5.0	--	--	--	--
08/24/99	173.53	166.40	7.13	96.2	1.38	<0.5	<0.5	<0.5	14.7	--	--	--	--
11/19/99	173.53	166.92	6.61	209	13.1	1.68	12.3	<0.5	3.79	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-1 (cont)													
02/03/00	173.53	168.30	5.23	95	1.4	<0.5	<0.5	<0.5	15	--	--	--	--
05/03/00	173.53	166.52	7.01	120[2]	0.92	<0.50	<0.50	<0.50	12	--	--	--	--
07/28/00	173.53	166.45	7.08	100[2]	<0.50	<0.50	<0.50	<0.50	21	--	--	--	--
11/13/00	173.53	169.41	4.12	73.0[3]	1.14	<0.500	<0.500	<0.500	27.0	--	--	--	--
02/15/01	173.53	166.86	6.67	148[4]	2.34	<0.500	<0.500	<0.500	<2.50	--	--	--	--
05/31/01	173.53	166.48	7.05	97[2]	1.5	<0.50	<0.50	<0.50	3.0/2.1[5]	--	--	--	--
08/30/01[6]	**173.53**	**166.21**	**7.32**	**410**	**4.8**	**<0.50**	**1.4**	**<0.50**	**--/<5.0[5]**	**--**	**--**	**--**	**--**
MW-2													
10/29/93	173.91	166.05	7.86	5,600	140	3.2	17	330	--	--	--	--	--
02/25/94	173.91	166.96	6.95	820	41	<0.5	17	5.0	--	--	--	--	--
04/04/94	173.91	166.18	7.73	--	--	--	--	--	--	--	--	--	--
04/29/94	173.91	166.23	7.68	--	--	--	--	--	--	--	--	--	--
06/13/94	173.91	166.20	7.71	1,100	160	0.8	64	2.0	--	<0.5	0.9	<0.5	2.0
06/30/94	173.91	165.87	8.04	--	--	--	--	--	--	--	--	--	--
07/28/94	173.91	165.99	7.92	--	--	--	--	--	--	--	--	--	--
08/31/94	173.91	165.98	7.93	190	7.1	4.1	3.1	1.2	--	<0.5	1.1	<0.5	4.5
11/11/94	173.91	167.08	6.83	440	120	<1.0	18	<1.0	--	--	--	--	--
02/01/95	173.91	167.77	6.14	240	81	<1.0	<1.0	<1.0	--	--	--	--	--
05/18/95	173.91	166.91	7.00	330	74	<0.5	26	1.3	--	--	--	--	--
08/22/95	173.91	166.58	7.33	390	84	<1.0	2.1	<1.0	--	--	--	--	--
11/01/95	173.91	166.54	7.37	190	46	<0.5	1.6	<0.5	<2.5	--	--	--	--
01/26/96	173.91	168.13	5.78	<50	13	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/96	173.91	166.76	7.15	<50	4.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
10/03/96	172.67	166.66	6.01	63	4.3	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/04/97	172.67	167.40	5.27	<50	1.6	<0.5	<0.5	<0.5	<2.5	--	--	--	--
04/30/97	172.67	166.74	5.93	<50	5.4	<0.5	0.8	<0.5	<2.5	--	--	--	--
07/22/97	172.67	166.53	6.14	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/03/97	172.67	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
02/11/98	172.67	167.95	4.72	<50	0.52	0.63	<0.5	<0.5	<2.5	--	--	--	--

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Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-2 (cont)													
05/08/98	172.67	167.07	5.60	<50	1.1	1.2	<0.5	<0.5	<2.5	--	--	--	--
08/07/98	172.67	166.33	6.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/05/98	172.67	166.59	6.08	120	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/02/99	172.67	167.41	5.26	67	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	172.67	167.71	4.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
08/24/99	172.67	165.33	7.34	<50	1.18	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	172.67	166.84	5.83	<50	4.29	0.907	<0.5	<0.5	<2.5	--	--	--	--
02/03/00	172.67	167.24	5.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/03/00	172.67	166.81	5.86	100[2]	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/28/00	172.67	166.76	5.91	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
11/13/00	172.67	166.69	5.98	82.8[3]	0.825	<0.500	<0.500	<0.500	25.0	--	--	--	--
02/15/01	172.67	167.25	5.42	161[4]	0.808	<0.500	<0.500	<0.500	30.3	--	--	--	--
05/31/01	172.67	166.91	5.76	120[2]	3.0	<0.50	<0.50	<0.50	29/26[5]	--	--	--	--
08/30/01[6]	**172.67**	**166.55**	**6.12**	**450**	**2.2**	**<0.50**	**<0.50**	**<0.50**	**--/27[5]**	**--**	**--**	**--**	**--**
MW-3													
10/29/93	172.60	164.96	7.64	110	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/25/94	172.60	166.22	6.38	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
04/04/94	172.60	165.21	7.39	--	--	--	--	--	--	--	--	--	--
04/29/94	172.60	165.62	6.98	--	--	--	--	--	--	--	--	--	--
06/13/94	172.60	165.15	7.45	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	2.0	<0.5	220
06/30/94	172.60	165.05	7.55	--	--	--	--	--	--	--	--	--	--
07/28/94	172.60	164.93	7.67	--	--	--	--	--	--	--	--	--	--
08/31/94	172.60	164.81	7.79	<50	<0.5	<0.5	<0.5	<0.5	--	<0.5	1.6	<0.5	320
11/11/94	172.60	165.73	6.87	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
02/01/95	172.60	167.03	5.57	89	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/18/95	172.60	165.79	6.81	--	--	--	--	--	--	--	--	--	--
08/22/95	172.60	165.35	7.25	190	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/01/95	172.60	165.70	6.90	--	--	--	--	--	--	--	--	--	--
01/26/96	172.60	167.35	5.25	160	<2.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-3 (cont)													
05/08/96	172.60	165.55	7.05	--	--	--	--	--	--	--	--	--	--
10/03/96	170.47	165.29	5.18	150	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/04/97	170.47	166.27	4.20	88	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
04/30/97	170.47	165.37	5.10	--	--	--	--	--	--	--	--	--	--
07/22/97	170.47	165.15	5.32	180	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/03/97	170.47	165.12	5.35	--	--	--	--	--	--	--	--	--	--
02/11/98	170.47	167.47	3.00	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	170.47	165.96	4.51	--	--	--	--	--	--	--	--	--	--
08/07/98	170.47	165.26	5.21	110	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/05/98	170.47	165.35	5.12	--	--	--	--	--	--	--	--	--	--
03/02/99	170.47	166.19	4.28	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	170.47	165.82	4.65	--	--	--	--	--	--	--	--	--	--
08/24/99	170.47	164.76	5.71	352	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	170.47	164.64	5.83	--	--	--	--	--	--	--	--	--	--
02/03/00	170.47	165.55	4.92	140	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/03/00	170.47	165.54	4.93	SAMPLED SEMI-ANNUALLY			--	--	--	--	--	--	--
07/28/00	170.47	INACCESSIBLE - CAR PARKED OVER WELL				--	--	--	--	--	--	--	--
11/13/00	170.47	165.29	5.18	--	--	--	--	--	--	--	--	--	--
02/15/01	170.47	166.10	4.37	310[4]	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
05/31/01	170.47	165.62	4.85	230[2]	<1.0	<1.0	<1.0	<1.0	5.2/2.4[5]	--	--	--	--
08/30/01	**170.47**	**INACCESSIBLE - TRUCK PARKED OVER WELL**					**--**	**--**	**--**	**--**	**--**	**--**	**--**
MW-4													
10/29/93	170.68	165.18	5.50	640	6.7	3.3	0.6	6.7	--	--	--	--	--
02/25/94	170.68	165.86	4.82	450	20	0.8	12	6.0	--	--	--	--	--
04/04/94	170.68	165.23	5.45	--	--	--	--	--	--	--	--	--	--
04/29/94	170.68	165.45	5.23	--	--	--	--	--	--	--	--	--	--
06/13/94	170.68	165.14	5.54	1,700	130	1.4	100	11	--	22	59	13	180
06/30/94	170.68	165.13	5.55	--	--	--	--	--	--	--	--	--	--
07/28/94	170.68	165.06	5.62	--	--	--	--	--	--	--	--	--	--

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
MW-4 (cont)													
08/31/94	170.68	165.00	5.68	800	17	3.5	9.3	4.4	--	25	53	22	510
11/11/94	170.68	165.46	5.22	500	26	<0.5	30	4.3	--	--	--	--	--
02/01/95	170.68	165.12	5.56	1,600	180	<2.0	31	42	--	--	--	--	--
05/18/95	170.68	165.70	4.98	1,300	130	<2.0	140	5.5	--	--	--	--	--
08/22/95	170.68	165.35	5.33	970	50	<1.2	75	<1.2	--	--	--	--	--
11/01/95	170.68	165.28	5.40	320	3.3	<0.5	4.1	<0.5	27	--	--	--	--
01/26/96	170.68	166.40	4.28	1,400	65	<2.5	98	71	100	--	--	--	--
05/08/96	170.68	165.33	5.35	610	28	1.2	58	4.4	70	--	--	--	--
10/03/96	171.70	165.48	6.22	210	4.2	<0.5	<0.5	<0.5	12	--	--	--	--
02/04/97	171.70	166.57	5.13	60	4.4	<0.5	<0.5	<0.5	--	--	--	--	--
04/30/97	171.70	165.60	6.10	870	49	<2.0	100	<2.0	18	--	--	--	--
07/22/97	171.70	165.36	6.34	420	16	<0.5	23	<0.5	9.4	--	--	--	--
11/03/97	171.70	165.35	6.35	370	8.1	0.54	10	7.6	30	--	--	--	--
02/11/98	171.70	167.16	4.54	<50	2.0	0.58	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	171.70	166.25	5.45	230	13	2.3	37	4.3	15	--	--	--	--
08/07/98	171.70	166.57	5.13	85	4.8	<0.5	11	0.87	57	--	--	--	--
11/05/98	171.70	165.31	6.39	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/02/99	171.70	166.65	5.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	171.70	166.40	5.30	<50	0.9	<0.5	0.843	<0.5	<5.0	--	--	--	--
08/24/99	171.70	164.35	7.35	<50	0.893	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	171.70	INACCESSIBLE		--	--	--	--	--	--	--	--	--	--
02/03/00	171.70	166.35	5.35	<50	<0.5	<0.5	<0.5	<0.5	2.9	--	--	--	--
05/03/00	171.70	165.72	5.98	110[2]	1.1	<0.50	0.51	<0.50	12	--	--	--	--
07/28/00	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING					--	--	--	--	--	--	--
11/13/00	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING					--	--	--	--	--	--	--
02/15/01	171.70	UNABLE TO LOCATE - DUE TO LANDSCAPING					--	--	--	--	--	--	--
05/31/01	171.70	166.62	5.08	<50	0.63	<0.50	<0.50	<0.50	<2.5/<2.0[5]	--	--	--	--
08/30/01[6]	**171.70**	**165.30**	**6.40**	**560**	**3.6**	**<0.50**	**21**	**1.3**	**--/<5.0[5]**	**--**	**--**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930

3369 Castro Valley Boulevard

Castro Valley, California

WELL ID/ DATE	TOC (ft.)	GWE (msl)	DTW (ft.)	TPH-G (ppb)	B (ppb)	T (ppb)	E (ppb)	X (ppb)	MTBE (ppb)	1,2-DCE (ppb)	TCE (ppb)	DCFM (ppb)	PCE (ppb)
TRIP BLANK													
02/25/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
06/13/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/31/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/11/94	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
02/01/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
05/18/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
08/22/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
11/01/95	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
01/26/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
10/03/96	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/04/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
04/30/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
07/22/97	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/11/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/08/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
08/07/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/05/98	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
03/02/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
05/17/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--	--	--
08/24/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
11/19/99	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
02/03/00	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<2.5	--	--	--	--
05/03/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
07/28/00	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
11/13/00	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
02/15/01	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50	--	--	--	--
05/31/01	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5	--	--	--	--
08/30/01[6]	**--**	**--**	**--**	**<50**	**<0.50**	**<0.50**	**<0.50**	**<0.50**	**--/<5.0[5]**	**--**	**--**	**--**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Former Chevron Service Station #9-4930

3369 Castro Valley Boulevard

Castro Valley, California

EXPLANATIONS:

Groundwater monitoring data and laboratory analytical results prior to May 3, 2000, were compiled from reports prepared by Blaine Tech Services, Inc.

TOC = Top of Casing
(ft.) = Feet
GWE = Groundwater Elevation
(msl) = Mean sea level
DTW = Depth to Water
TPH-G = Total Petroleum Hydrocarbons as Gasoline
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl tertiary butyl ether
1,2-DCE = 1,2-Dichloroethene
TCE = Trichloroethene
DCFM = Dichlorodifluoromethane
PCE = Tetrachloroethene
(ppb) = Parts per billion
-- = Not Measured/Not Analyzed

1 No value for MTBE could be determined; see lab report.

2 Laboratory report indicates discrete peaks.

3 Laboratory report indicates unidentified hydrocarbons C6-C12.

4 Laboratory report indicates single analyte peak(s) are present in the requested fuel quantitation range. Fuel hydrocarbon is not present.

5 MTBE by EPA Method 8260.

6 TPH-G and BTEX by EPA Method 8260.

Table 2

Groundwater Analytical Results - Oxygenate Compounds

Former Chevron Service Station #9-4930
3369 Castro Valley Boulevard
Castro Valley, California

WELL ID	DATE	METHANOL (ppm)	ETHANOL (ppb)	TBA (ppb)	MTBE (ppb)	DIPE (ppb)	ETBE (ppb)	TAME (ppb)	1,2-DCA (ppb)	EDB (ppb)
MW-1	05/31/01	<1.000	<500	<20	2.1	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	**<5.0**	--	--	--	--	--
MW-2	05/31/01	<1.000	<500	<20	26	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	**27**	--	--	--	--	--
MW-3	05/31/01	<1.000	<500	<20	2.4	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	**INACCESSIBLE - TRUCK PARKED OVER WELL**				--	--	--	--	--
MW-4	05/31/01	<1.000	<500	<20	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
	08/30/01	--	--	--	**<5.0**	--	--	--	--	--
TRIP BLANK	**08/30/01**	--	--	--	**<5.0**	--	--	--	--	--

EXPLANATIONS:

TBA = Tertiary butyl alcohol
MTBE = Methyl tertiary butyl ether
DIPE = Di-isopropyl ether
ETBE = Ethyl tertiary butyl ether
TAME = Tertiary amyl methyl ether
1,2-DCA = 1,2-Dichloroethane
EDB = Ethylene dibromide
(ppm) = Parts per million
(ppb) = Parts per billion
-- = Not Analyzed

ANALYTICAL METHOD:

EPA Method 8015 (Modified) for Methanol
EPA Method 8260 for Oxygenate Compounds

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. Prior to sample collection, the type of analysis to be performed is determined. Loss prevention of volatile compounds is controlled and sample preservation for subsequent analysis is maintained.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, static water level measurements are collected with the interface probe and are also recorded in the field notes.

After water levels are collected and prior to sampling, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, suction, Grundfos), or polyvinyl-chloride bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging. Purging continues until these parameters stabilize.

Groundwater samples are collected using Chevron-designated disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used when possible. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. For sampling sets greater than 20 samples, 5% trip blanks are included. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Products Company, the purge water and decontamination water generated during sampling activities is transported by IWM to McKittrick Waste Management located in McKittrick, California.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility# Chevron 9-4930 — Job#: 386509

Address: 3369 Castro Valley Blvd. — Date: 8/30/01

City: Castro Valley, CA — Sampler: FRANK T.

Well ID: MW-1 — Well Condition: O'K'

Well Diameter: 2 in. — Hydrocarbon Thickness: 0 (feet) — Amount Bailed (product/water): 0 (Gallons)

Total Depth: 17.85 ft.

Depth to Water: 7.32 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.53 X VF .17 = 1.79 X 3 (case volume) = Estimated Purge Volume: 5.37 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other:

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other:

Starting Time: 5:02

Sampling Time: 5:18

Purging Flow Rate: N/A gpm.

Did well de-water? NO

Weather Conditions: SUNNY

Water Color: CLOUDY | TAN — Odor: NO

Sediment Description: LITE SILT

If yes; Time: — Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X 100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
5:05	1.5	7.12	272	73.6			
5:08	3.0	7.09	264	73.2			
5:12	5.0	7.01	256	72.9			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	3x VOA's	Y	HCL	KIFF	TPHG | BTEX | MTBE

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Chevron
Facility # 9-4930
Address: 3369 Castro Valley Blvd.
City: Castro Valley, CA

Job#: 386509
Date: 8/30/01
Sampler: FRANK T.

Well ID: MW-2
Well Condition: O'K'

Well Diameter: 2 in.
Total Depth: 16.39 ft.
Depth to Water: 6.12 ft.

Hydrocarbon Thickness: 0 (feet)
Amount Bailed (product/water): 0 (Gallons)

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

10.27 x VF .17 = 1.74 X 3 (case volume) = Estimated Purge Volume: 5.23 (gal.)

Purge Equipment: (Disposable Bailer)
Bailer
Stack
Suction
Grundfos
Other:

Sampling Equipment: (Disposable Bailer)
Bailer
Pressure Bailer
Grab Sample
Other:

Starting Time: 4:30
Sampling Time: 4:46
Purging Flow Rate: N/A gpm.
Did well de-water? NO

Weather Conditions: SUNNY
Water Color: CLOUDY | TAN Odor: NO
Sediment Description: LITE SILT
If yes; Time: Volume: (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
4:33	1.5	7.10	246	74.4			
4:36	3.0	7.04	214	72.9			
4:40	5.0	6.92	206	72.2			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	3 x VOA's	Y	HCL	KIFF	TPH-g | BTEX | MTBE

COMMENTS:

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility# Chevron 9-4930 | Job#: 386509

Address: 3369 Castro Valley Blvd. | Date: 8/30/01

City: Castro Valley, CA | Sampler: FRANK T.

Well ID: MW-3 | Well Condition: O'K' (INACCESSIBLE)

Well Diameter: 2 in. | Hydrocarbon Thickness: -0- (feet) | Amount Bailed (product/water): -0- (Gallons)

Total Depth: 16.98 ft.

Depth to Water: N/A ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

____ X VF ____ = ____ X 3 (case volume) = Estimated Purge Volume: ____ (gal.)

Purge Equipment:
- Disposable Bailer
- Bailer
- Stack
- N/A Suction
- Grundfos
- Other: ____

Sampling Equipment:
- Disposable Bailer
- Bailer
- N/A Pressure Bailer
- Grab Sample
- Other: ____

Starting Time: ____ | Weather Conditions: SUNNY

Sampling Time: ____ | Water Color: ____ | Odor: ____

Purging Flow Rate: ____ gpm. | Sediment Description: ____

Did well de-water? ____ | If yes; Time: ____ | Volume: ____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	X VOAS	Y	HCL	KIFF	TPHG | BTEX | MTBE

COMMENTS: WELL WAS INACCESSIBLE, UTILITY TRUCK PARKED OVER THE WELL.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/ Facility# Chevron 9-4930 Job#: 386509

Address: 3369 Castro Valley Blvd. Date: 8/30/01

City: Castro Valley, CA Sampler: FRANK T.

Well ID MW-4 Well Condition: O'k'

Well Diameter 2 in. Hydrocarbon Thickness: 0 (feet) Amount Bailed (product/water): 0 (Gallons)

Total Depth 17.40 ft.

Depth to Water 6.40 ft.

Volume Factor (VF)	2" = 0.17	3" = 0.38	4" = 0.66	6" = 1.50	12" = 5.80

11.00 X VF .17 = 1.87 X 3 (case volume) = Estimated Purge Volume: 5.61 (gal.)

Purge Equipment: (Disposable Bailer) Bailer, Stack, Suction, Grundfos, Other: _____

Sampling Equipment: (Disposable Bailer) Bailer, Pressure Bailer, Grab Sample, Other: _____

Starting Time: 4:04 Weather Conditions: SUNNY

Sampling Time: 4:21 Water Color: CLOUDY | TAN Odor: NO

Purging Flow Rate: N/A gpm. Sediment Description: LITE SILT

Did well de-water? NO If yes; Time: _____ Volume: _____ (gal.)

Time	Volume (gal.)	pH	Conductivity µmhos/cm X100	Temperature °F	D.O. (mg/L)	ORP (mV)	Alkalinity (ppm)
4:07	1.5	7.17	204	76.1			
4:11	3.5	7.10	182	74.6			
4:15	5.5	7.07	164	73.4			

LABORATORY INFORMATION

SAMPLE ID	(#) - CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	3 x VOA's	Y	HCL	KIFF	TPH6 | BTEX | MTBE

COMMENTS: _____

Fax copy of Lab Report and COC to Chevron Contact: ☐ Yes ☐ No 22067

Chain-of-Custody-Record

Chevron Products Co.
P.O. BOX 6004
San Ramon, CA 94583
FAX (925)842-8370

Chevron Facility Number #9-4930
Facility Address 3369 Castro Valley, Castro Valley, CA
Consultant Project Number 386509
Consultant Name GETTLER-RYAN INC.
Address 6747 SIERRA CT. SUITE J, DUBLIN, CA
Project Contact (Name) DEANNA L. HARDING
(Phone) 925-551-7555 (Fax Number) 925-551-7888

Chevron Contact (Name) MR. THOMAS BAUHS
(Phone) 925-842-8898
Laboratory Name KIFF
Laboratory Service Order
Laboratory Service Code
Samples Collected by (Name) FRANK TERRINONI
Signature Frank Terrinoni

State Method: ☒ CA ☐ OR ☐ WA ☐ NW Series ☐ CO ☐ UT

Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Sample Preservation	Date/Time	BTEX/MTBE+TPH GAS (8020 + 8015)	BTEX + TPH GAS (8020 + 8015)	TPH Diesel (8015)	Oxygenates (8260)	Purgeable Halocarbons (8010)	Purgeable Organics (8260)	Extractable Organics (8270)	Oil and Grease (5520)	Metals (ICAP or AA) Cd,Cr,Pb,Zn,Ni	BTEX (8020)	BTEX/MTBE/Naph. (8020)	TPH - HOID	TPH-D Extended						Remarks / Lab Sample No.
TB-LB	1	W	HCL	8/30/01	X																		01
MW-1	3			1718	X																		02
MW-2	3			1646	X																		03
MW-4	3	↓	↓	1621	X																		04

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Frank Terrinoni	G-R INC.	8/31/01				
Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time	Iced Y/N
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time	Iced Y/N
			Kiff		0930 083101	(Y)/N

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

KIFF ANALYTICAL LLC

Report Number : 22063
Date : 9/19/2001

Deanna L. Harding
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, CA 94568

Subject : 4 Water Samples
Project Name : Chevron #9-4930/3369 Castro Valley, Castro Valley
Project Number : 386509

Dear Ms. Harding,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 22063
Date : 9/19/2001

Project Name : **Chevron #9-4930/3369 Castro Valley, Castro Valley**
Project Number : **386509**

Sample : **TB-LB** Matrix : Water Lab Number : 22063-01
Sample Date :8/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/10/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/10/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/10/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/10/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	9/10/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	9/10/2001
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	9/10/2001
4-Bromofluorobenzene (Surr)	103		% Recovery	EPA 8260B	9/10/2001

Sample : **MW-1** Matrix : Water Lab Number : 22063-02
Sample Date :8/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**4.8**	0.50	ug/L	EPA 8260B	9/6/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Ethylbenzene	**1.4**	0.50	ug/L	EPA 8260B	9/6/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	9/6/2001
TPH as Gasoline	**410**	50	ug/L	EPA 8260B	9/6/2001
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	9/6/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	9/6/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

KIFF ANALYTICAL LLC

Report Number : 22063
Date : 9/19/2001

Project Name : **Chevron #9-4930/3369 Castro Valley, Castro Valley**
Project Number : **386509**

Sample : **MW-2** Matrix : Water Lab Number : 22063-03
Sample Date :8/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**2.2**	0.50	ug/L	EPA 8260B	9/6/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Methyl-t-butyl ether (MTBE)	**27**	5.0	ug/L	EPA 8260B	9/6/2001
TPH as Gasoline	**450**	50	ug/L	EPA 8260B	9/6/2001
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	9/6/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	9/6/2001

Sample : **MW-4** Matrix : Water Lab Number : 22063-04
Sample Date :8/30/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**3.6**	0.50	ug/L	EPA 8260B	9/6/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	9/6/2001
Ethylbenzene	**21**	0.50	ug/L	EPA 8260B	9/6/2001
Total Xylenes	**1.3**	0.50	ug/L	EPA 8260B	9/6/2001
Methyl-t-butyl ether (MTBE)	**< 5.0**	5.0	ug/L	EPA 8260B	9/6/2001
TPH as Gasoline	**560**	50	ug/L	EPA 8260B	9/6/2001
Toluene - d8 (Surr)	103		% Recovery	EPA 8260B	9/6/2001
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	9/6/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800